



# 2010–2011 Minerals Yearbook

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NEW YORK [ADVANCE RELEASE]

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## LEGEND



Source: New York State Geological Survey/U.S. Geological Survey (2010–11).

# THE MINERAL INDUSTRY OF NEW YORK

**This chapter has been prepared under a Memorandum of Understanding between the U.S. Geological Survey and the New York State Geological Survey for collecting information on all nonfuel minerals.**

In 2011, New York's nonfuel mineral production<sup>1</sup> was valued at \$1.34 billion, based upon annual U.S. Geological Survey (USGS) data. This was a \$16 million (1.2%) increase from the State's total nonfuel mineral production value of \$1.32 billion in 2010, which followed a \$66 million (4.8%) decrease from \$1.39 billion in 2009. Production in the State first surpassed \$1 billion in 2000 and has done so every year since 2004. Among the 50 States, New York fell slightly in rank to 16th in 2011 from 15th in 2010 in terms of total nonfuel mineral production value. The State accounted for close to 2% of the total U.S. value in 2010 and 2011. On a per capita basis, New York ranked 43d in the Nation in nonfuel mineral production in 2011 with a value of \$69, well below the national average of \$240.

Salt was New York's leading nonfuel mineral commodity by value and represented 34% of the nonfuel production value in both 2010 and 2011, followed by crushed stone (29% in 2010 and 31% on 2011), construction sand and gravel (19%), and portland cement (percentage withheld—proprietary company data). In 2008, the production value of salt overtook that of crushed stone for the first time, and 2010 and 2011 marked the first time that salt had been the top nonfuel mineral by value for two consecutive years.

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<sup>1</sup>The terms "nonfuel mineral production" and related "values" encompass variations in meaning, depending upon the mineral products. Production may be measured by mine shipments, mineral commodity sales, or marketable production (including consumption by producers) as is applicable to the individual mineral commodity.

All USGS mineral production data published in this chapter are those available as of May 2013. Data in this report are rounded to three significant digits and percentages are calculated from unrounded data. All USGS Mineral Industry Surveys and USGS Minerals Yearbook chapters—mineral commodity, State, and country—can be retrieved over the Internet at <http://minerals.usgs.gov/minerals>.

Of the leading four nonfuel minerals, only the production value of salt increased in 2010, whereas the production values of all but portland cement rose in 2011. In total, the amount of salt produced rose 280,000 metric tons (t) (4.4%), from 2009 to 2011, and the production value increased by \$26 million (6.1%). The quantity of crushed stone produced decreased by 1.8 million metric tons (Mt) (4.8%) and the production value decreased by \$17 million (3.9%) over the same time period, while the quantity and value of construction sand and gravel fell by 819,000 Mt (2.6%), and by \$10 million (3.7%), respectively, from 2009. Portland cement production in 2011 was 8.9% lower than in 2009 by quantity and 12.9% lower by production value (actual values withheld—proprietary company data). The production values of most other nonfuel minerals were also down in 2011 compared to 2009—most notably, the production value of industrial sand and gravel fell almost 97%—but industrial garnet and wollastonite saw modest increases.

New York continued to be the sole producer of wollastonite in 2010 and 2011 and rose to first in rank (by quantity) out of three producing States in industrial garnet production. It remained third out of 16 States in the production of salt (accounting for 14.8% of the total U.S. quantity), and 6th out of 50 States in construction sand and gravel. New York rose to 14th in 2011 from 15th in 2010 in the production of crushed stone. In 2011, the State fell to 11th from 6th in 2009 and 2010 in common clay production, to seventh from sixth in 2009 and 2010 in dimension stone production, and to seventh out of 13 States from fifth in 2009 for peat production (based on sales). New York also produced steel and primary aluminum, feeds for which were obtained from foreign and/or other domestic sources.

TABLE 1  
NONFUEL MINERAL PRODUCTION IN NEW YORK<sup>1,2</sup>

(Thousand metric tons and thousand dollars)

| Mineral  | 2009                |                        | 2010     |           | 2011     |           |
|--|---------------------|------------------------|----------|-----------|----------|-----------|
|  | Quantity            | Value                  | Quantity | Value     | Quantity | Value     |
| Clays, common  | 605                 | 30,200                 | 595      | 30,000    | 388      | 16,900    |
| Gemstones, natural   | NA                  | 97                     | NA       | 97        | NA       | 98        |
| Peat   | W                   | W                      | W        | W         | 2        | W         |
| Salt   | 6,240               | 426,000                | 6,460    | 442,000   | 6,520    | 452,000   |
| Sand and gravel, construction  | 31,100              | 267,000 <sup>r</sup>   | 30,800   | 249,000   | 30,300   | 257,000   |
| Stone:   |                     |                        |          |           |          |           |
| Crushed  | 37,800 <sup>r</sup> | 431,000 <sup>r</sup>   | 33,900   | 383,000   | 36,000   | 414,000   |
| Dimension  | 97                  | 28,200                 | 94       | 25,800    | 99       | 17,800    |
| Combined values of cement, garnet (industrial), sand and gravel (industrial), and values indicated by symbol W | XX                  | 207,000                | XX       | 193,000   | XX       | 182,000   |
| Total  | XX                  | 1,390,000 <sup>r</sup> | XX       | 1,320,000 | XX       | 1,340,000 |

<sup>r</sup>Revised. NA Not available. W Withheld to avoid disclosing company proprietary data. Withheld values included in "Combined values" data. XX Not applicable

<sup>1</sup>Production as measured by mine shipments, sales, or marketable production (including consumption by producers).

<sup>2</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

TABLE 2  
NEW YORK: CRUSHED STONE SOLD OR USED IN THE UNITED STATES, BY TYPE<sup>1</sup>

| Type                                 | 2009                  |                                       |                        |               | 2010                  |                                       |                      |               | 2011                  |                                       |                      |               |
|--------------------------------------|-----------------------|---------------------------------------|------------------------|---------------|-----------------------|---------------------------------------|----------------------|---------------|-----------------------|---------------------------------------|----------------------|---------------|
|                                      | Number<br>of quarries | Quantity<br>(thousand<br>metric tons) | Value<br>(thousands)   | Unit<br>value | Number<br>of quarries | Quantity<br>(thousand<br>metric tons) | Value<br>(thousands) | Unit<br>value | Number<br>of quarries | Quantity<br>(thousand<br>metric tons) | Value<br>(thousands) | Unit<br>value |
| Limestone <sup>2</sup>               | 68 <sup>r</sup>       | 20,300 <sup>r</sup>                   | \$216,000 <sup>r</sup> | \$10.67       | 66                    | 20,100                                | \$228,000            | \$11.30       | 64                    | 19,600                                | \$221,000            | \$11.31       |
| Dolomite                             | 16                    | 9,870                                 | 114,000                | 11.51         | 15                    | 7,310                                 | 72,900               | 9.98          | 18                    | 8,830                                 | 97,800               | 11.07         |
| Marble                               | 2                     | 96                                    | 950                    | 9.85          | 2                     | 94                                    | 1,030                | 11.04         | 1                     | 36                                    | 392                  | 10.92         |
| Granite                              | 8                     | 1,090 <sup>r</sup>                    | 13,300                 | 12.26         | 9                     | 1,560                                 | 23,700               | 15.16         | 10                    | 1,730                                 | 24,100               | 13.98         |
| Traprock                             | 3                     | 2,840                                 | 45,200                 | 15.96         | --                    | --                                    | --                   | --            | --                    | --                                    | --                   | --            |
| Sandstone and quartzite <sup>3</sup> | 16                    | 2,090 <sup>r</sup>                    | 23,600 <sup>r</sup>    | 14.93         | 17                    | 1,630                                 | 19,700               | 12.10         | 15                    | 2,400                                 | 27,400               | 11.43         |
| Slate                                | 3                     | 167                                   | 1,640                  | 9.85          | 1                     | 25                                    | 276                  | 11.02         | --                    | --                                    | --                   | --            |
| Miscellaneous stone                  | 39 <sup>r</sup>       | 1,610 <sup>r</sup>                    | 16,800 <sup>r</sup>    | 10.49         | 14                    | 3,110                                 | 38,000               | 12.22         | 13                    | 3,480                                 | 43,200               | 12.44         |
| Total or average                     | XX                    | 37,800 <sup>r</sup>                   | 431,000 <sup>r</sup>   | 11.35         | XX                    | 33,900                                | 383,000              | 11.31         | XX                    | 36,000                                | 414,000              | 11.49         |

<sup>r</sup>Revised. XX Not applicable. -- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits, except unit value; may not add to totals shown.

<sup>2</sup>Includes limestone-dolomite reported with no distinction between the two kinds of stone.

<sup>3</sup>Includes sandstone-quartzite reported with no distinction between the two kinds of stone.

TABLE 3  
NEW YORK: CRUSHED STONE SOLD OR USED BY PRODUCERS  
IN 2010, BY USE<sup>1</sup>

(Thousand metric tons and thousand dollars)

| Use  | Quantity | Value   |
|--|----------|---------|
| Construction:  |          |         |
| Coarse aggregate (+1½ inch):                           |          |         |
| Macadam  | 169      | \$1,600 |
| Riprap and jetty stone                                 | 206      | 3,030   |
| Filter stone   | 368      | 3,280   |
| Other coarse aggregate                                 | 402      | 4,730   |
| Coarse aggregate, graded:                              |          |         |
| Concrete aggregate, coarse                             | 1,050    | 11,300  |
| Bituminous aggregate, coarse                           | 1,130    | 23,800  |
| Bituminous surface-treatment aggregate                 | 87       | 1,170   |
| Railroad ballast                                       | W        | W       |
| Other graded coarse aggregate                          | 3,080    | 37,300  |
| Fine aggregate (-¾ inch):                              |          |         |
| Stone sand, concrete                                   | 203      | 2,160   |
| Stone sand, bituminous mix or seal                     | 397      | 4,760   |
| Screening, undesignated                                | 571      | 5,210   |
| Other fine aggregate                                   | 3,330    | 42,000  |
| Coarse and fine aggregates:                            |          |         |
| Graded road base or subbase                            | 690      | 7,390   |
| Unpaved road surface                                   | 116      | 1,260   |
| Terrazzo and exposed aggregate                         | W        | W       |
| Crusher run or fill or waste                           | 3,470    | 27,800  |
| Other coarse and fine aggregates                       | 1,620    | 20,400  |
| Other construction materials                           | 527      | 5,230   |
| Agricultural, agricultural limestone                   | 163      | 1,940   |
| Chemical and metallurgical, cement manufacture         | 1,090    | 11,600  |
| Other miscellaneous uses and specified uses not listed | W        | W       |
| Unspecified: <sup>2</sup>                              |          |         |
| Reported   | 5,500    | 57,600  |
| Estimated  | 8,520    | 89,100  |
| Total  | 33,900   | 383,000 |

W Withheld to avoid disclosing company proprietary data; included in "Total."

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Reported and estimated production without a breakdown by end use.

TABLE 4  
NEW YORK: CRUSHED STONE SOLD OR USED BY PRODUCERS  
IN 2011, BY USE<sup>1</sup>

(Thousand metric tons and thousand dollars)

| Use  | Quantity | Value   |
|--|----------|---------|
| Construction:  |          |         |
| Coarse aggregate (+1½ inch):                           |          |         |
| Macadam  | 198      | 2,930   |
| Riprap and jetty stone                                 | 626      | 9,180   |
| Filter stone   | 51       | 763     |
| Unspecified coarse aggregate                           | 211      | 2,790   |
| Coarse aggregate, graded:                              |          |         |
| Concrete aggregate, coarse                             | 2,670    | 33,200  |
| Bituminous aggregate, coarse                           | 3,180    | 43,900  |
| Bituminous surface-treatment aggregate                 | 251      | 4,230   |
| Railroad ballast                                       | 88       | 1,560   |
| Unspecified graded coarse aggregate                    | 1,140    | 11,800  |
| Fine aggregate (-¾ inch):                              |          |         |
| Stone sand, concrete                                   | 66       | 933     |
| Stone sand, bituminous mix or seal                     | 877      | 13,700  |
| Screening, undesignated                                | 778      | 9,390   |
| Unspecified fine aggregate                             | 1,040    | 11,400  |
| Coarse and fine aggregates:                            |          |         |
| Graded road base or subbase                            | 3,110    | 27,700  |
| Unpaved road surface                                   | 108      | 1,290   |
| Crusher run or fill or waste                           | 4,020    | 35,900  |
| Unspecified coarse and fine aggregates                 | 638      | 6,450   |
| Unspecified and other construction materials           | 20       | 161     |
| Agricultural, agricultural limestone                   | 143      | 2,520   |
| Chemical and metallurgical, cement manufacture         | 660      | 7,060   |
| Other miscellaneous uses and specified uses not listed | 555      | 6,020   |
| Unspecified: <sup>2</sup>                              |          |         |
| Reported   | 8,710    | 95,200  |
| Estimated  | 6,900    | 86,300  |
| Total  | 36,000   | 414,000 |

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Reported and estimated production without a breakdown by end use.

TABLE 5  
NEW YORK: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2010, BY USE AND DISTRICT<sup>1</sup>

(Thousand metric tons and thousand dollars)

| Use   | District 1 |          | District 2 |         | District 3 |          |
|---|------------|----------|------------|---------|------------|----------|
|   | Quantity   | Value    | Quantity   | Value   | Quantity   | Value    |
| Construction:   |            |          |            |         |            |          |
| Coarse aggregate (+1½ inch) <sup>2</sup>                            | --         | --       | 343        | \$4,150 | 59         | \$861    |
| Coarse aggregate, graded <sup>3</sup>                               | --         | --       | 2,330      | 29,000  | 734        | 8,560    |
| Fine aggregate (-¾ inch) <sup>4</sup>                               | --         | --       | 2,320      | 30,600  | 517        | 6,420    |
| Coarse and fine aggregates <sup>5</sup>                             | --         | --       | 1,130      | 14,500  | 748        | 7,990    |
| Other construction materials  | --         | --       | W          | W       | --         | --       |
| Agricultural <sup>6</sup>   | --         | --       | W          | W       | --         | --       |
| Chemical and metallurgical <sup>7</sup>                             | --         | --       | --         | --      | 524        | 5,600    |
| Other miscellaneous uses and specified uses not listed <sup>8</sup> | --         | --       | --         | --      | --         | --       |
| Unspecified: <sup>9</sup>   |            |          |            |         |            |          |
| Reported  | --         | --       | --         | --      | --         | --       |
| Estimated   | --         | --       | 801        | 8,710   | 2,400      | 25,800   |
| Total <sup>10</sup>   | --         | --       | 7,060      | 88,900  | 4,980      | 55,200   |
| Use   | District 4 |          | District 5 |         | District 6 |          |
|   | Quantity   | Value    | Quantity   | Value   | Quantity   | Value    |
| Construction:   |            |          |            |         |            |          |
| Coarse aggregate (+1½ inch) <sup>2</sup>                            | 228        | \$2,370  | 45         | \$490   | W          | W        |
| Coarse aggregate, graded <sup>3</sup>                               | 1,070      | 10,700   | W          | W       | W          | W        |
| Fine aggregate (-¾ inch) <sup>4</sup>                               | 546        | 5,340    | W          | W       | W          | W        |
| Coarse and fine aggregates <sup>5</sup>                             | 1,080      | 10,100   | 696        | 6,010   | W          | W        |
| Other construction materials  | --         | --       | W          | W       | --         | --       |
| Agricultural <sup>6</sup>   | 60         | 697      | W          | W       | --         | --       |
| Chemical and metallurgical <sup>7</sup>                             | 565        | 6,050    | --         | --      | --         | --       |
| Other miscellaneous uses and specified uses not listed <sup>8</sup> | --         | --       | --         | --      | --         | --       |
| Unspecified: <sup>9</sup>   |            |          |            |         |            |          |
| Reported  | 220        | 2,340    | 1,550      | 16,200  | 1,580      | \$16,500 |
| Estimated   | 496        | 5,560    | 1,430      | 16,200  | 1,160      | 12,800   |
| Total <sup>10</sup>   | 4,270      | 43,100   | 4,320      | 45,200  | 3,090      | 34,200   |
| Use   | District 7 |          | District 8 |         |            |          |
|   | Quantity   | Value    | Quantity   | Value   |            |          |
| Construction:   |            |          |            |         |            |          |
| Coarse aggregate (+1½ inch) <sup>2</sup>                            | W          | W        | W          | W       |            |          |
| Coarse aggregate, graded <sup>3</sup>                               | W          | W        | W          | W       |            |          |
| Fine aggregate (-¾ inch) <sup>4</sup>                               | W          | W        | W          | W       |            |          |
| Coarse and fine aggregates <sup>5</sup>                             | W          | W        | W          | W       |            |          |
| Other construction materials  | --         | --       | W          | W       |            |          |
| Agricultural <sup>6</sup>   | W          | W        | W          | W       |            |          |
| Chemical and metallurgical <sup>7</sup>                             | --         | --       | --         | --      |            |          |
| Other miscellaneous uses and specified uses not listed <sup>8</sup> | W          | W        | --         | --      |            |          |
| Unspecified: <sup>9</sup>   |            |          |            |         |            |          |
| Reported  | 2,020      | \$21,200 | 131        | \$1,390 |            |          |
| Estimated   | 967        | 9,880    | 1,640      | 13,600  |            |          |
| Total <sup>10</sup>   | 5,050      | 48,900   | 4,230      | 51,600  |            |          |

W Withheld to avoid disclosing company proprietary data; included in "Total." -- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Includes macadam, riprap and jetty stone, filter stone, and other coarse aggregates.

<sup>3</sup>Includes concrete aggregate (coarse), bituminous aggregate (coarse), bituminous surface-treatment aggregate, railroad ballast, and other graded coarse aggregates.

<sup>4</sup>Includes stone sand (concrete), stone sand (bituminous mix or seal), screening (undesignated), and other fine aggregate.

<sup>5</sup>Includes graded road base or subbase, unpaved road surface, terrazzo and exposed aggregate, crusher run, roofing granules, and other coarse and fine aggregates.

<sup>6</sup>Includes agricultural limestone, poultry grit and mineral food, and other agricultural uses.

<sup>7</sup>Includes cement manufacture, lime manufacture, dead-burned dolomite manufacture, flux stone, chemical stone, glass manufacture, and sulfur oxide removal.

<sup>8</sup>Includes drain fields, waste material, lightweight aggregate (slate), pipe bedding, refractory stone (including ganister), and other miscellaneous uses.

<sup>9</sup>Reported and estimated production without a breakdown by end use.

<sup>10</sup>District totals may not add up to the published State total, owing to revisions made after the production of the table and/or proprietary data being withheld.



TABLE 6  
NEW YORK: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2011, BY USE AND DISTRICT<sup>1</sup>

(Thousand metric tons and thousand dollars)

| Use   | District 2 |         | District 3 |        | District 4 |        |
|---|------------|---------|------------|--------|------------|--------|
|   | Quantity   | Value   | Quantity   | Value  | Quantity   | Value  |
| Construction:   |            |         |            |        |            |        |
| Coarse aggregate (+1 ½ inch) <sup>2</sup>                           | 351        | 5,730   | W          | W      | 466        | 5,950  |
| Coarse aggregate, graded <sup>3</sup>                               | 4,000      | 56,600  | W          | W      | 835        | 9,170  |
| Fine aggregate (-¾ inch) <sup>4</sup>                               | W          | W       | --         | --     | 347        | 3,790  |
| Coarse and fine aggregates <sup>5</sup>                             | 1,170      | 13,000  | W          | W      | 1,080      | 9,750  |
| Other construction materials  | W          | W       | --         | --     | --         | --     |
| Agricultural <sup>6</sup>   | W          | W       | --         | --     | 16         | 136    |
| Chemical and metallurgical <sup>7</sup>                             | --         | --      | --         | --     | 660        | 7,060  |
| Other miscellaneous uses and specified uses not listed <sup>8</sup> | --         | --      | --         | --     | W          | W      |
| Unspecified: <sup>9</sup>   |            |         |            |        |            |        |
| Reported  | 1,240      | 13,600  | 1,380      | 15,100 | 882        | 9,630  |
| Estimated   | 400        | 4,370   | 2,330      | 25,600 | 550        | 6,000  |
| Total   | 8,710      | 115,000 | 5,100      | 54,900 | 5,070      | 53,400 |
| Use   | District 5 |         | District 6 |        | District 7 |        |
|   | Quantity   | Value   | Quantity   | Value  | Quantity   | Value  |
| Construction:   |            |         |            |        |            |        |
| Coarse aggregate (+1 ½ inch) <sup>2</sup>                           | 80         | 1,020   | --         | --     | W          | W      |
| Coarse aggregate, graded <sup>3</sup>                               | W          | W       | --         | --     | W          | W      |
| Fine aggregate (-¾ inch) <sup>4</sup>                               | W          | W       | --         | --     | W          | W      |
| Coarse and fine aggregates <sup>5</sup>                             | W          | W       | --         | --     | W          | W      |
| Other construction materials  | --         | --      | --         | --     | W          | W      |
| Agricultural <sup>6</sup>   | W          | W       | --         | --     | W          | W      |
| Chemical and metallurgical <sup>7</sup>                             | --         | --      | --         | --     | --         | --     |
| Other miscellaneous uses and specified uses not listed <sup>8</sup> | W          | W       | --         | --     | --         | --     |
| Unspecified: <sup>9</sup>   |            |         |            |        |            |        |
| Reported  | 1,330      | 14,500  | 1,780      | 19,500 | 2,100      | 22,900 |
| Estimated   | 345        | 3,770   | 1,350      | 14,800 | 1,000      | 11,000 |
| Total   | 3,870      | 43,200  | 3,130      | 34,200 | 5,530      | 55,100 |
| Use   | District 8 |         |            |        |            |        |
|   | Quantity   | Value   |            |        |            |        |
| Construction:   |            |         |            |        |            |        |
| Coarse aggregate (+1 ½ inch) <sup>2</sup>                           | W          | W       |            |        |            |        |
| Coarse aggregate, graded <sup>3</sup>                               | W          | W       |            |        |            |        |
| Fine aggregate (-¾ inch) <sup>4</sup>                               | W          | W       |            |        |            |        |
| Coarse and fine aggregates <sup>5</sup>                             | W          | W       |            |        |            |        |
| Other construction materials  | W          | W       |            |        |            |        |
| Agricultural <sup>6</sup>   | W          | W       |            |        |            |        |
| Chemical and metallurgical <sup>7</sup>                             | --         | --      |            |        |            |        |
| Other miscellaneous uses and specified uses not listed <sup>8</sup> | --         | --      |            |        |            |        |
| Unspecified: <sup>9</sup>   |            |         |            |        |            |        |
| Reported  | --         | --      |            |        |            |        |
| Estimated   | 924        | 20,800  |            |        |            |        |
| Total   | 4,630      | 58,700  |            |        |            |        |

W Withheld to avoid disclosing company proprietary data; included in "Total." -- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add up to totals shown.

<sup>2</sup>Includes macadam, riprap and jetty stone, filter stone, and other coarse aggregates.

<sup>3</sup>Includes concrete aggregate (coarse), bituminous aggregate (coarse), bituminous surface-treatment aggregate, railroad ballast, and other graded coarse aggregates.

<sup>4</sup>Includes stone sand (concrete), stone sand (bituminous mix or seal), screening (undesignated), and other fine aggregate.

<sup>5</sup>Includes graded road base or subbase, unpaved road surface, terrazzo and exposed aggregate, crusher run, roofing granules, and other coarse and fine aggregates.

<sup>6</sup>Includes agricultural limestone, poultry grit and mineral food, and other agricultural uses.

<sup>7</sup>Includes cement manufacture, lime manufacture, dead-burned dolomite manufacture, flux stone, chemical stone, glass manufacture, and sulfur oxide removal.

<sup>8</sup>Includes drain fields, waste material, lightweight aggregate (slate), pipe bedding, refractory stone (including ganister), and other miscellaneous uses.

<sup>9</sup>Reported and estimated production without a breakdown by end use.

TABLE 7  
NEW YORK: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2010,  
BY MAJOR USE CATEGORY<sup>1</sup>

| Use   | Quantity<br>(thousand<br>metric tons) | Value<br>(thousands) | Unit<br>value |
|---|---------------------------------------|----------------------|---------------|
| Concrete aggregate (including concrete sand)                | 3,960                                 | \$37,000             | \$9.34        |
| Plaster and gunite sands                                    | 168                                   | 1,740                | 10.36         |
| Concrete products (blocks, bricks, pipe, decorative, etc.)  | 87                                    | 315                  | 3.62          |
| Asphaltic concrete aggregates and other bituminous mixtures | 1,320                                 | 11,800               | 8.94          |
| Road base and coverings <sup>2</sup>                        | 3,560                                 | 24,600               | 6.91          |
| Fill  | 1,070                                 | 4,670                | 4.36          |
| Snow and ice control  | 894                                   | 5,300                | 5.93          |
| Railroad ballast  | 2                                     | 13                   | 6.50          |
| Filtration  | 37                                    | 263                  | 7.11          |
| Other miscellaneous uses                                    | 88                                    | 592                  | 6.73          |
| Unspecified: <sup>3</sup>                                   |                                       |                      |               |
| Reported  | 2,750                                 | 26,000               | 9.45          |
| Estimated   | 16,700                                | 136,000              | 8.14          |
| Total or average  | 30,800                                | 249,000              | 8.08          |

<sup>1</sup>Data are rounded to no more than three significant digits, except unit value; may not add to totals shown.

<sup>2</sup>Includes road and other stabilization (cement and lime).

<sup>3</sup>Reported and estimated production without a breakdown by end use.

TABLE 8  
NEW YORK: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2011,  
BY MAJOR USE CATEGORY<sup>1</sup>

| Use   | Quantity<br>(thousand<br>metric tons) | Value<br>(thousands) | Unit<br>value |
|---|---------------------------------------|----------------------|---------------|
| Concrete aggregate (including concrete sand)                | 4,840                                 | \$50,700             | \$10.48       |
| Plaster and gunite sands                                    | 251                                   | 2,280                | 9.08          |
| Concrete products (blocks, bricks, pipe, decorative, etc.)  | 13                                    | 112                  | 8.62          |
| Asphaltic concrete aggregates and other bituminous mixtures | 1,290                                 | 11,800               | 9.15          |
| Road base and coverings <sup>2</sup>                        | 3,860                                 | 25,000               | 6.48          |
| Fill  | 1,250                                 | 5,900                | 4.72          |
| Snow and ice control  | 906                                   | 5,600                | 6.18          |
| Filtration  | 21                                    | 142                  | 6.76          |
| Other miscellaneous uses <sup>3</sup>                       | 142                                   | 872                  | 6.14          |
| Unspecified: <sup>4</sup>                                   |                                       |                      |               |
| Reported  | 2,050                                 | 21,400               | 10.44         |
| Estimated   | 15,700                                | 133,000              | 8.47          |
| Total or average  | 30,300                                | 257,000              | 8.48          |

<sup>1</sup>Data are rounded to no more than three significant digits, except unit value; may not add to totals shown.

<sup>2</sup>Includes road and other stabilization (cement and lime).

<sup>3</sup>Includes railroad ballast.

<sup>4</sup>Reported and estimated production without a breakdown by end use.

TABLE 9  
NEW YORK: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2010,  
BY USE AND DISTRICT<sup>1</sup>

(Thousand metric tons and thousand dollars)

| Use  | District 1 |         | District 2 |         | District 3 |         |
|--|------------|---------|------------|---------|------------|---------|
|  | Quantity   | Value   | Quantity   | Value   | Quantity   | Value   |
| Concrete aggregates and concrete products <sup>2</sup>             | W          | W       | 204        | \$2,890 | 786        | \$7,160 |
| Asphaltic concrete aggregates and road base materials <sup>3</sup> | W          | W       | 254        | 3,570   | W          | W       |
| Fill   | 4          | \$42    | 44         | 434     | 308        | 1,230   |
| Snow and ice control   | 3          | 106     | 22         | 418     | 223        | 1,420   |
| Other miscellaneous uses <sup>4</sup>                              | --         | --      | 25         | 273     | 17         | 104     |
| Unspecified: <sup>5</sup>  |            |         |            |         |            |         |
| Reported   | 1,260      | 13,200  | 124        | 1,940   | 16         | 133     |
| Estimated  | 1,190      | 7,420   | 1,820      | 15,100  | 798        | 6,540   |
| Total <sup>6</sup>   | 3,610      | 34,100  | 2,500      | 24,600  | 3,300      | 25,300  |
|  | District 4 |         | District 5 |         | District 6 |         |
|  | Quantity   | Value   | Quantity   | Value   | Quantity   | Value   |
| Concrete aggregates and concrete products <sup>2</sup>             | 285        | \$1,690 | 253        | \$1,910 | 396        | \$3,670 |
| Asphaltic concrete aggregates and road base materials <sup>3</sup> | 396        | 2,070   | 453        | 3,420   | 852        | 5,380   |
| Fill   | 345        | 792     | 79         | 323     | W          | W       |
| Snow and ice control   | 130        | 662     | 123        | 502     | 130        | 604     |
| Other miscellaneous uses <sup>4</sup>                              | 1          | 5       | 6          | 43      | 23         | 175     |
| Unspecified: <sup>5</sup>  |            |         |            |         |            |         |
| Reported   | 3          | 43      | 155        | 1,190   | 178        | 1,360   |
| Estimated  | 1,740      | 14,300  | 818        | 6,800   | 3,530      | 29,200  |
| Total <sup>6</sup>   | 2,900      | 19,500  | 1,890      | 14,200  | 5,210      | 40,900  |
|  | District 7 |         | District 8 |         |            |         |
|  | Quantity   | Value   | Quantity   | Value   |            |         |
| Concrete aggregates and concrete products <sup>2</sup>             | 498        | \$4,060 | 739        | \$5,830 |            |         |
| Asphaltic concrete aggregates and road base materials <sup>3</sup> | 948        | 6,610   | 733        | 4,960   |            |         |
| Fill   | 123        | 920     | 65         | 384     |            |         |
| Snow and ice control   | 156        | 832     | 107        | 766     |            |         |
| Other miscellaneous uses <sup>4</sup>                              | 18         | 136     | 37         | 133     |            |         |
| Unspecified: <sup>5</sup>  |            |         |            |         |            |         |
| Reported   | 805        | 6,260   | 206        | 1,910   |            |         |
| Estimated  | 3,030      | 25,200  | 3,760      | 31,200  |            |         |
| Total <sup>6</sup>   | 5,580      | 44,000  | 5,650      | 45,200  |            |         |

W Withheld to avoid disclosing company proprietary data; included in "Other miscellaneous uses." -- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Includes plaster and gunite sands.

<sup>3</sup>Includes road and other stabilization (cement and lime).

<sup>4</sup>Includes filtration and railroad ballast.

<sup>5</sup>Reported and estimated production without a breakdown by end use.

<sup>6</sup>District totals may not add up to the published State total, owing to revisions made after the production of the table and/or proprietary data being withheld.

TABLE 10  
NEW YORK: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2011,  
BY USE AND DISTRICT<sup>1</sup>

(Thousand metric tons and thousand dollars)

| Use  | District 1 |        | District 2 |        | District 3 |        |
|--|------------|--------|------------|--------|------------|--------|
|  | Quantity   | Value  | Quantity   | Value  | Quantity   | Value  |
| Concrete aggregates and concrete products <sup>2</sup>             | W          | W      | W          | W      | W          | W      |
| Asphaltic concrete aggregates and road base materials <sup>3</sup> | W          | W      | W          | W      | W          | W      |
| Fill   | 57         | 813    | 186        | 1,280  | 227        | 927    |
| Snow and ice control   | 1          | 9      | 121        | 1,310  | 218        | 1,490  |
| Other miscellaneous uses <sup>4</sup>                              | --         | --     | 11         | 160    | 13         | 86     |
| Unspecified: <sup>5</sup>  |            |        |            |        |            |        |
| Reported   | 222        | 3,850  | 143        | 2,320  | 59         | 422    |
| Estimated  | 509        | 4,350  | 1,550      | 13,200 | 600        | 5,020  |
| Total  | 2,830      | 34,800 | 2,530      | 25,200 | 2,930      | 21,300 |
| Use  | District 4 |        | District 5 |        | District 6 |        |
|  | Quantity   | Value  | Quantity   | Value  | Quantity   | Value  |
| Concrete aggregates and concrete products <sup>2</sup>             | 277        | 1,970  | 258        | 1,810  | 600        | 6,210  |
| Asphaltic concrete aggregates and road base materials <sup>3</sup> | 439        | 2,130  | 435        | 3,010  | 903        | 6,220  |
| Fill   | 319        | 809    | 121        | 407    | 203        | 1,050  |
| Snow and ice control   | 68         | 275    | 99         | 425    | 183        | 777    |
| Other miscellaneous uses <sup>4</sup>                              | 1          | 5      | 20         | 140    | 16         | 118    |
| Unspecified: <sup>5</sup>  |            |        |            |        |            |        |
| Reported   | 8          | 64     | 124        | 1,230  | 453        | 3,860  |
| Estimated  | 1,730      | 14,300 | 593        | 5,070  | 3,610      | 30,200 |
| Total  | 2,850      | 19,600 | 1,650      | 12,100 | 5,970      | 48,500 |
| Use  | District 7 |        | District 8 |        |            |        |
|  | Quantity   | Value  | Quantity   | Value  |            |        |
| Concrete aggregates and concrete products <sup>2</sup>             | 591        | 5,290  | 433        | 3,470  |            |        |
| Asphaltic concrete aggregates and road base materials <sup>3</sup> | 1,020      | 6,950  | 913        | 6,770  |            |        |
| Fill   | 52         | 279    | 80         | 332    |            |        |
| Snow and ice control   | 115        | 606    | 101        | 704    |            |        |
| Other miscellaneous uses <sup>4</sup>                              | 23         | 164    | 81         | 341    |            |        |
| Unspecified: <sup>5</sup>  |            |        |            |        |            |        |
| Reported   | 725        | 6,390  | 311        | 3,240  |            |        |
| Estimated  | 3,320      | 28,400 | 3,770      | 32,200 |            |        |
| Total  | 5,850      | 48,100 | 5,690      | 47,100 |            |        |

W Withheld to avoid disclosing company proprietary data; included in "Total." -- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Includes plaster and gunite sands.

<sup>3</sup>Includes road and other stabilization (cement and lime).

<sup>4</sup>Includes filtration and railroad ballast.

<sup>5</sup>Reported and estimated production without a breakdown by end use.